

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.
08/849,686	08/21/97	DEGGERDAL.	Α	08269/003001

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EXAMINER KUNZ, G

JANIS K FRASER FISH & RICHARDSON 225 FRANKLIN STREET BOSTON MA 02110-2804

ART UNIT PAPER NUMBER

1211

DATE MAILED:

11/19/97

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

	Application No.	Applicant(s)			
Office Action Summary	Examiner		1		
· · · · · · · · · · · · · · · · · · ·			Group Art Unit		
The MAILING DATE of this communication appear	s on the cover shee	et beneath the cor	respondence add	dress	
Period for Response					
A SHORTENED STATUTORY PERIOD FOR RESPONSE IS SI MAILING DATE OF THIS COMMUNICATION.	ET TO EXPIRE 177	MONTH((S) FROM THE		
 Extensions of time may be available under the provisions of 37 CFR 1. from the mailing date of this communication. If the period for response specified above is less than thirty (30) days, If NO period for response is specified above, such period shall, by defa Failure to respond within the set or extended period for response will, b 	a response within the sta ault, expire SIX (6) MON	atutory minimum of thin THS from the mailing d	ty (30) days will be co ate of this communic	onsidered timel	
Status					
Responsive to communication(s) filed on $8-21-$	97 and	10-24-9	7		
☐ This action is FINAL .		•			
☐ Since this application is in condition for allowance except accordance with the practice under <i>Ex parte Quayle</i> , 1935			ne merits is close	ed in	
Disposition of Claims					
	is/are pending in the application.				
Of the above claim(s)					
□ Claim(s)	is/are allowed.				
∑ Claim(s) / -/8	is/are rejected.				
□ Claim(s)	is/are objected to.				
□ Claim(s)	are subject to restriction or election				
Application Papers		requirem	nent.		
☐ See the attached Notice of Draftsperson's Patent Drawing	Review, PTO-948.				
☐ The proposed drawing correction, filed on	is 🗆 approve	d 🗆 disapproved.			
☐ The drawing(s) filed on is/are object	ed to by the Examine	er.			
☐ The specification is objected to by the Examiner.					
☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. § 119 (a)-(d)					
Acknowledgment is made of a claim for foreign priority und M All Some* None of the CERTIFIED copies of the received.					
 □ received in Application No. (Series Code/Serial Numbe □ received in this national stage application from the Interest 	•		•		
*Certified copies not received:			·		
Attachment(s)					
Information Disclosure Statement(s), PTO-1449, Paper No	o(s)5	☐ Interview Summa	ary, PTO-413		
Notice of References Cited, PTO-892		☐ Notice of Informa		on, PTO-152	
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948		□ Other			
18/840 L8/ Office	Action Summary				

PTO-326 (Rev. 3-97)

*u.s. GPO: 1997-417-381/62710 Part of Paper No.______/

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Claims 1 - 18 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The specification mentions only one support which can be used in the claimed process for purifying DNA. Moreover, this single support is identified exclusively by its tradename, "DynaBeads DNA Direct". This tradename is inadequate as a written description because a trademark or tradename is used to identify the source of goods, and not the goods themselves. A generic description of "DynaBeads DNA Direct" is required in order to make this specification properly enabling under 35 uSC 112, first paragraph.

Claims 1 - 18 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a method for purifying DNA using "DynaBeads (once a generic description is inserted into the disclosure), it does not reasonably provide enablement for any support or even any hydrophobic support because detergents typically disrupt hydrophobic interactions upon which, the examiner believes, this method is based. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to the invention commensurate in scope with these claims.

The examiner requests from the applicant information about whether the DynaBeads used in the instant method is a product of the prior art. If the answer is "yes", then the examiner

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requests marketing information about the product and how the manufacturer suggests that this product be used.

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1 - 12 and 14 - 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over. Woodard et al. (5,329,000).

The claims are directed to a method for purifying DNA comprising the combined use of a detergent and a solid support wherein the DNA binds to the solid support and then is eluted from said support, preferably by heating.

Woodard et al. discloses a method for purifying DNA comprising the use of a solid support (silicon tetrahydrazide) wherein the DNA binds to the solid support and can then be Serial Number: 08/849,686 Page 4

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eluted by heating (see claim 3). There is no limitation that the method of Woodard et al. cannot be used with a detergent, and traditionally such detergents are used in the lysis of cells.

Therefore, the person of ordinary skill in the art would have found it obvious to have

used the method of Woodard et al. with a cell lysate which contained a detergent. Thus, the

claimed invention is <u>prima facie</u> obvious in the absence of clear and convincing evidence to the

contrary. The limitations concerning the various detergents are simply traditional detergents used

in cell lysis. The kit comprising a solid support and detergent would have also been obvious over

Woodard et al. because Woodard et al. disclose a solid support for DNA purification and any

detergent used in cell lysis can be employed in the Woodard et al. method.

The Cashion patent (4,379,843) is cited as an example in which nucleic acids are purified

on a hydrophobic support.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner Kunz, whose telephone number is (703) 308-4623. The examiner

can normally be reached on Tuesday through Friday from 6:30 AM to 4:00 PM. The examiner

can also be reached on alternate Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

John Kight, can be reached on (703) 308-0204. The fax phone number for this Group is (703)

308-4556.

GARY L. KUNZ R(MARY EXAMINER

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